



(19)

02292013 A

(11) Publication number:

Generated Document

PATENT ABSTRACTS OF JAPAN

(21) Application number: 01111772

(51) Int. Cl.: B29C 45/26 B29C 33/38 B29C 45/72

(22) Application date: 29.04.89

(30) Priority:

(43) Date of application
publication: 03.12.90(84) Designated contracting
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(54) INJECTION MOLDING
METHOD OF
PHOTOPOLYMERIZATION
RESIN AND INJECTION
MOLDING APPARATUS
THEREOF

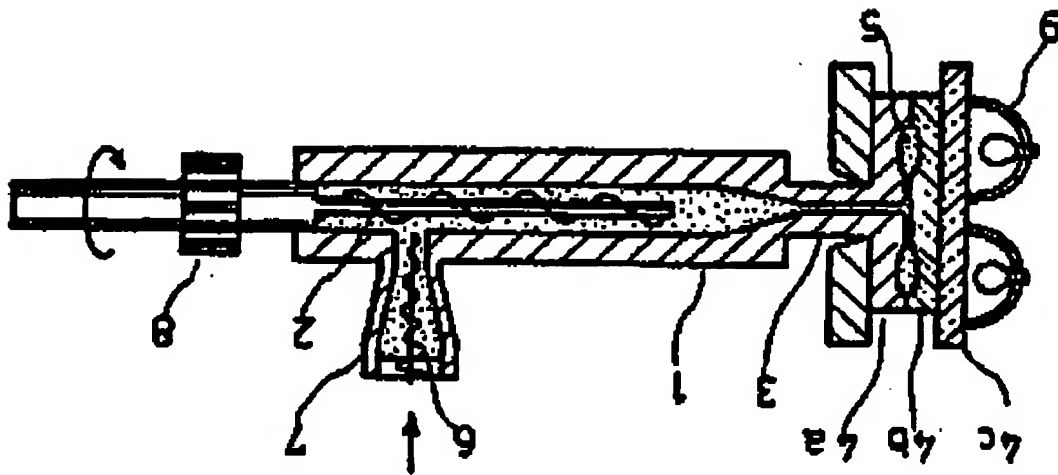
(57) Abstract:

PURPOSE: To manufacture efficiently a resin molding having excellent dimensional accuracy or mechanical strength by press-casting photopolymerization resin into cavities formed in a male and female mold made up of a transparent

material, and introducing and irradiating photopolymerization irradiating light into the cavity from the outside.

CONSTITUTION: Photosetting resin 6 is inputted into a photosetting resin kneading supplier 7, and then press-casted into a cavity 5 formed in a fixed side molding mole 4a and movable side transparent molding mold 4b through a cylinder 1 and nozzle 3 by means of a screw 2. Next, visible light produced by halogen lamps is irradiated to the photopolymerization resin 6 within the cavity 5 through a reinforced glass 4c and movable transparent molding mold 4b, and the movable side molding mold 4b is withdrawn for opening the molding mold, and thus a polymerized and cured photosetting resin molding is taken out thereof. By employing photopolymerization resin, a molding can be obtained, which can be injection-molded at low temperature and has excellent dimensional accuracy. And, since a heater in the screw and a cooling pipe in the mold are not required, the structure of the molding apparatus can be simple and small in size.

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